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(FILE 'HOME' ENTERED AT 12:07:37 ON 13 APR 2006)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 12:08:23 ON 13  
APR 2006

L1 522959 S PHOSPHORYLATION?  
L2 2469 S L1 AND TROPONIN?  
L3 1560 S L1 AND (TROPONIN I)  
L4 514 S L1 AND (TROPONIN T)  
L5 521 S L1 AND (TROPONIN C)  
L6 586 S L1 AND ACTININ?  
L7 10601 S L1 AND (MYOSIN LIGHT CHAIN)  
L8 1398 S L2 AND MUSCLE?  
L9 317 S L4 AND MUSCLE  
L10 324 S L5 AND MUSCLE?  
L11 111 S L6 AND MUSCLE  
L12 6382 S L7 AND MUSCLE  
L13 724 DUPLICATE REMOVE L3 (836 DUPLICATES REMOVED)  
L14 3 S L2 AND (MUSCLE DAMAGE?)  
L15 3 DUPLICATE REMOVE L14 (0 DUPLICATES REMOVED)  
L16 0 S L4 AND (MUSCLE DAMAGE)  
L17 235 DUPLICATE REMOVE L4 (279 DUPLICATES REMOVED)  
L18 993 S L8 AND PD<2000  
L19 200 S L9 AND PD<2000  
L20 245 S L10 AND PD<2000  
L21 45 S L11 AND PD<2000  
L22 4507 S L12 AND PD<2000  
L23 536 DUPLICATE REMOVE L18 (457 DUPLICATES REMOVED)  
L24 96 DUPLICATE REMOVE L19 (104 DUPLICATES REMOVED)  
L25 123 DUPLICATE REMOVE L20 (122 DUPLICATES REMOVED)  
L26 30 DUPLICATE REMOVE L21 (15 DUPLICATES REMOVED)  
L27 2125 DUPLICATE REMOVE L22 (2382 DUPLICATES REMOVED)  
L28 39 S L23 AND MYOFILAMEN?  
L29 9 S L24 AND MYOFILAMEN?  
L30 0 S L23 AND ADDUCT?  
L31 8 S L25 AND MYOFILAMEN?  
L32 0 S L26 AND MYOFILAMEN?  
L33 50 S L27 AND MYOFILAMEN?

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AN 95289839 EMBASE  
DN 1995289839  
TI Troponin C - Troponin I interactions and molecular signalling in cardiac **myofilaments**.  
AU Solaro R.J.; Lab M.; Landesberg A.; Burkhoff D.; Ter Keurs H.  
CS Department of Physiology/Biophysics, College of Medicine, University of Illinois, 901 South Wolcott, Chicago, IL 60612-7342, United States  
SO Advances in Experimental Medicine and Biology, (1995) Vol. 382, pp. 109-115. .  
ISSN: 0065-2598 CODEN: AEMBAP  
CY United States  
DT Journal; Conference Article  
FS 002 Physiology  
018 Cardiovascular Diseases and Cardiovascular Surgery  
030 Pharmacology  
037 Drug Literature Index  
LA English  
SL English  
ED Entered STN: 17 Oct 1995  
Last Updated on STN: 17 Oct 1995  
AB This chapter describes a current perception of the molecular interactions regulating **myofilament** activity in heart cells. The focus is on the interaction between troponin-C (TnC), the Ca<sup>2+</sup>-receptor and troponin I (TnI), an inhibitory protein. It is this interaction that appears to form a molecular switch that turns on the thin filament. It will be seen that control of the actin-myosin reaction is not only through Ca<sup>2+</sup>-binding to TnC, but also through steric, cooperative and allosteric processes involving all of the main **myofilament** proteins-actin, myosin, tropomyosin (Tm), **troponin T** (TnT), TnC, and TnI. The process is modulated by covalent and non-covalent mechanisms. The process is altered in diverse myopathies and pathologies of the heart and is a target for pharmacological manipulation by a new class of inotropic agents, the 'Ca<sup>2+</sup>-sensitizers'.  
CT Medical Descriptors:  
\*actin myosin interaction  
\*cardiomyopathy: DT, drug therapy  
\*cardiomyopathy: ET, etiology  
\*molecular interaction  
allosterism  
calcium binding  
conference paper  
    **heart muscle cell**  
    **myofilament**  
priority journal  
    **protein phosphorylation**  
signal transduction  
Drug Descriptors:  
\*calcium ion  
\*inotropic agent: DT, drug therapy  
\*inotropic agent: PD, pharmacology  
\*troponin c  
\*troponin i  
actin  
myosin  
protein kinase c  
tropomyosin  
    **troponin t**  
RN (calcium ion) 14127-61-8; (troponin c) 56094-11-2; (troponin i) 77108-40-8; (protein kinase c) 141436-78-4; (tropomyosin) 72067-79-9; (**troponin t**) 60304-72-5